



PT New anti-obesity polypeptide useful for treating obesity or infertility  
PT in mammals -  
XX

PS Claim 1; Page 116-117; 162pp; English.

CC The present sequence represents a 5'-OT-EST (oxytoxin expressed sequence tag) polypeptide. The 5'-OT EST gene is involved in the control of obesity and fertility in males. 5'-OT EST nucleic acids are useful for producing transgenic animals. The transgenic animals created serve as a model for human late onset obesity and other related disorders and are also used for identifying the genetic cause of obesity. Compounds which modulate 5'-OT EST expression or activity are useful in the treatment or modulation of late onset visceral obesity or male infertility particularly in the disorders related to these conditions such as wasting, or anorexia, or cachexia associated with prolonged illness, or malabsorptive states or catabolic states associated with other diseases such as inflammatory conditions, Crohn's disease or AIDS wasting, or burns, or cancer, or bone disease.

CC Sequence 200 AA.

Query Match 100.0%; Score 104; DB 21; Length 200;  
Best Local Similarity 100.0%; Pred. No. 1 5e-87; Indels 0; Gaps 0;  
Matches 200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRLALNLRARPGQQPTTLILPVGRGRTRRHPAKSKVGRVKMPAVDPAAELFVLTERRY 60  
Db 1 mlralnrlaarpqgrgppptlllpvgrgrtrrhpkaskvgrvkmpavdpaaelfvlterry 60  
Qy 61 RQIRETVALRREFTELVGRKHLEARAGVLAERKAQAEATREHQELMAWRRENRQLER 120  
Db 61 rqiretvalrreftevlgrkhlearagvlaerkqaqairehnlawnrreenrrqler 120  
Qy 121 IARLQLEAQOERLQAEVQORAQEQQAWQOLKEQEVKLTRENLARIEA 180  
Db 121 iarlqleaqaeqlrqeqvqgrqeqeqawqkqeqevkqeqeqaknfirtenleariea 180  
Qy 181 LDSPKSXNWAVTKEGQVNR 200  
Db 181 ldspksxnwavtkegqvnr 200

RESULT 2  
ID AAY69372  
AC AAY69372; standard; Protein; 200 AA.

XX  
DT 19-JUN-2000 (first entry)

DE A mouse 5'-OT EST (oxytoxin expressed sequence tag) protein.

XX Oxytoxin expressed sequence tag; 5'-OT EST; obesity; fertility; male; transgenic animal; human late onset obesity; late onset visceral obesity; male infertility; wasting; anorexia; cachexia; malabsorptive state; catabolic state; inflammatory condition; Crohn's disease; AIDS wasting; KW burn; cancer; bone disease.  
KW burn; cancer; bone disease.  
OS Mus sp.  
PN WO200009686-A1.  
XX PD 24-FEB-2000.  
XX PF 12-AUG-1999; 99WO-GB02658.  
XX PR 12-AUG-1998; 98GB-0017566.  
PR 06-MAY-1999; 99GB-0010522.  
PA (MEDI-) MEDICAL RES COUNCIL.  
XX PI Robinson ICAF, Stoye JP, Flavell D, Wells SE, Le Tissier P;

XX WPI; 2000-224331/19.  
DR N-PSB; AAZ6152.

PS Claim 1; Page 121-122; 162pp; English.

CC The present sequence represents a mouse 5'-OT-EST (oxytoxin expressed sequence tag) polypeptide. The 5'-OT EST gene is involved in the control of obesity and fertility in males. 5'-OT EST nucleic acids are useful for producing transgenic animals. The transgenic animals created serve as a model for human late onset obesity and other related disorders and are also used for identifying the genetic cause of obesity. Compounds which modulate 5'-OT EST expression or activity are useful in the treatment or modulation of late onset visceral obesity or male infertility particularly in the disorders related to these conditions such as wasting, or anorexia, or cachexia associated with prolonged illness, or malabsorptive states or catabolic states associated with other diseases such as inflammatory conditions, Crohn's disease or AIDS wasting, or burns, or cancer, or bone disease.

CC Sequence 200 AA;

Query Match 90.0%; Score 904; DB 21; Length 200;  
Best Local Similarity 89.5%; Pred. No. 1 5e-78; Indels 0; Gaps 0;  
Matches 179; Conservative 10; Mismatches 11; Indels 0; Gaps 0;

Qy 1 MRLALNLRARPGQQPTTLILPVGRGRTRRHPAKSKVGRVKMPAVDPAAELFVLTERRY 60  
Db 1 mlralnrlaarpqgrgppptlllpvgrgrtrrhpkaskvgrvkmpavdpaaelfvlterry 60  
Qy 61 RQIRETVALRREFTELVGRKHLEARAGVLAERKAQAEATREHQELMAWRRENRQLER 120  
Db 61 rqiretvalrreftevlgrkhlearagvlaerkqaqairehnlawnrreenrrqler 120  
Qy 121 IARLQLEAQOERLQAEVQORAQEQQAWQOLKEQEVKLTRENLARIEA 180  
Db 121 iarlqleaqaeqlrqeqvqgrqeqeqawqkqeqevkqeqeqaknfirtenleariea 180  
Qy 181 LDSPKSXNWAVTKEGQVNR 200  
Db 181 ldspksxnwavtkegqvnr 200

RESULT 3  
ID AAY69371  
AC AAY69371; standard; Protein; 205 AA.

XX  
DT 19-JUN-2000 (first entry)

DE A human 5'-OT EST (oxytoxin expressed sequence tag) protein.

XX Oxytoxin expressed sequence tag; 5'-OT EST; obesity; fertility; male; transgenic animal; human late onset obesity; late onset visceral obesity; male infertility; wasting; anorexia; cachexia; malabsorptive state; catabolic state; inflammatory condition; Crohn's disease; AIDS wasting; KW burn; cancer; bone disease.  
KW burn; cancer; bone disease.  
OS Homo sapiens.  
PN WO200009686-A1.  
XX PD 24-FEB-2000.  
XX PF 12-AUG-1999; 99WO-GB02658.  
XX PR 12-AUG-1998; 98GB-0017566.  
PR 06-MAY-1999; 99GB-0010522.

XX (MEDI-) MEDICAL RES COUNCIL.  
 XX PA  
 XX PI Robinson ICAF, Stoye JP, Flavell D, Wells SE, Le Tissier P;  
 XX DR WPI; 2000-224331/19.  
 XX N-PSDB; AA261511.  
 PT New anti-obesity polypeptide useful for treating obesity or infertility  
 XX in mammals -  
 PS Claim 1; Page 119; 162pp; English.  
 XX The present sequence represents a human 5'-OT-EST (oxytoxin expressed  
 sequence tag) polypeptide. The 5'-OT EST gene is involved in the  
 control of obesity and fertility in males. 5'-OT EST nucleic acids are  
 useful for producing transgenic animals. The transgenic animals created  
 serve as a model for human late onset obesity and other related disorders  
 and are also used for identifying the genetic cause of obesity. Compounds  
 which modulate 5'-OT EST expression or activity are useful in the  
 treatment or modulation of late onset visceral obesity or male  
 infertility particularly in the disorders related to these conditions  
 such as wasting, or anorexia or cachexia associated with prolonged  
 illnesses, or malabsorptive states or catabolic states associated with  
 other diseases such as inflammatory conditions, Crohn's disease or  
 AIDS wasting, or burns, or cancer, or bone disease.  
 XX Sequence 205 AA;

Query Match 68.4%; Score 687; DB 21; Length 205;  
 Best Local Similarity 69.8%; Pred. No. 1.7e-57;  
 Matches 139; Conservative 22; Mismatches 38; Indels 0; Gaps 0;  
 CC

OY 1 MRLALNRLAARGGQPPTLLILPVGRKTRDPKSKVGRVKMPANPAELFVLTBY 60  
 ||||| :||| | :||| ;||| :||| ||| :||| ;||| ||| :||| ||| :||| ||| :||| |||  
 Db 1 miralnrlaarggqpptllilpvgrktrdpkskvgrvkmpanpaelfvlty 60

OY 61 RQYRETYRALRREFTLVYRGKLUHEARGVLAERKAQEEAIRHOELMAWNREENRQLQLR 120  
 :||| :||| | :||| ;||| :||| ||| :||| ;||| ||| :||| ||| :||| ||| :||| |||  
 Db 61 qhyrqtvralmefvsvqrkvheargvlaerkakdaehremlwngaqenrrlhe 120

OY 121 IARLQLEQAOELOROAVQAOQAOESEGAWSWOLKEQEWNLQEEAKNFITRNLEARIEA 180  
 ||||| :||| ||| ||| ||| :||| ||| ||| :||| ||| ||| :||| ||| ||| :||| |||  
 Db 121 iarlqlleqaoelroavqaoqaoesegaawswolekewnlqeeknfitrnleariea 180

OY 181 LDSPKSYINNAVKEGQWR 199  
 ||| | :||| :||| ||| :||| |||  
 Db 181 ldspknyinnavkegqwr 199

RESULT 4  
 AAY69373 ID AAY69373 standard; Protein: 41 AA.  
 XX AC AAY69373;  
 XX DT 19-JUN-2000 (first entry)  
 DE A deleted 5'-OT EST (oxytoxin expressed sequence tag) protein.  
 XX KW oxytoxin expressed sequence tag; 5'-OT EST; obesity; fertility; male;  
 KW transgenic animal; human late onset obesity; late onset visceral obesity;  
 KW male infertility; wasting; anorexia; cachexia; malabsorptive state;  
 KW catabolic state; inflammatory condition; Crohn's disease; AIDS wasting;  
 KW burn; cancer; bone disease.  
 XX OS Synthetic.  
 OS Rattus sp.  
 XX PN WO200009686-A1.  
 XX PD 24-FEB-2000.

RESULT 5  
 AAY69375 ID AAY69375 standard; Peptide: 41 AA.  
 XX AC AAY69375;  
 XX DT 19-JUN-2000 (first entry)  
 DE Fragment of a mutant 5'-OT EST (oxytoxin expressed sequence tag).  
 XX KW Oxytoxin expressed sequence tag; 5'-OT EST; obesity; fertility; male;  
 KW transgenic animal; human late onset obesity; late onset visceral obesity;  
 KW male infertility; wasting; anorexia; cachexia; malabsorptive state;  
 KW catabolic state; inflammatory condition; Crohn's disease; AIDS wasting;  
 KW burn; cancer; bone disease.  
 XX OS Unidentified.  
 XX PN WO200009686-A1.  
 XX PD 24-FEB-2000.  
 PF 12-AUG-1999; 99WO-GB02658.  
 PR 12-AUG-1998; 98GB-0017566.  
 PR 06-MAY-1999; 99GB-0010522.  
 XX DR N-PSDB; AA261513.  
 PT New anti-obesity polypeptide useful for treating obesity or infertility  
 XX in mammals -  
 PS Disclosure; Page 124; 162pp; English.  
 XX The present sequence represents a rat 5'-OT-EST (oxytoxin expressed  
 sequence tag) mutant polypeptide (designated 5'-OT EST-xdel), where  
 exons x, y and z are deleted and exon w is partially deleted. The  
 5'-OT EST gene is involved in the control of obesity and fertility  
 in males. 5'-OT EST nucleic acids are useful for producing transgenic  
 animals. The transgenic animals created serve as a model for human late  
 onset obesity and other related disorders and are also used for  
 identifying the genetic cause of obesity. Compounds which modulate  
 5'-OT EST expression or activity are useful in the treatment or  
 modulation of late onset visceral obesity or male infertility  
 particularly in the disorders related to these conditions such as  
 wasting, or anorexia, or cachexia associated with prolonged  
 illnesses, or malabsorptive states or catabolic states associated with other  
 diseases such as inflammatory conditions, Crohn's disease or AIDS  
 wasting, or burns, or cancer, or bone disease.  
 XX Sequence 41 AA;

Query Match 13.4%; Score 135; DB 21; Length 41;  
 Best Local Similarity 90.0%; Pred. No. 4.3e-06; 1; Mismatches 2; Indels 0; Gaps 0;  
 CC

OY 1 MRLALNRLAARGGQPPTLLILPVGRKTR 30  
 ||||| :||| | :||| ;||| :||| ||| :||| ||| :||| ||| :||| ||| :||| |||  
 Db 1 miralnrlaarggqpptllilpvgrktr 30

PA (MEDI-) MEDICAL RES COUNCIL.  
 PI Robinson ICAF, Stoye JP, Flavell D, Wells SE, Le Tissier P;  
 XX WPI: 2000-224331/19.

PT New anti-obesity polypeptide useful for treating obesity or infertility  
 PT in mammals -  
 XX

PS Claim 7; Page 94; 162pp; English.

XX The present sequence represents a fragment of a mutant 5'-OT-EST (cysteotoxin expressed sequence tag) protein. The 5'-OT EST gene is involved in the control of obesity and fertility in males. 5'-OT EST nucleic acids are useful for producing transgenic animals. The transgenic animals created serve as a model for human late onset obesity and other related disorders and are also used for identifying the genetic cause of obesity. Compounds which modulate 5'-OT EST expression or activity are useful in the treatment or modulation of late onset visceral obesity or male infertility particularly in the disorders related to these conditions such as wasting, or anorexia, or cachexia associated with prolonged illness, or malabsorptive states or catabolic states associated with AIDS or other diseases such as inflammatory conditions, Crohn's disease or AIDS.

CC CC wasting, or burns, or cancer, or bone disease.

CC CC

XX Sequence 41 AA;

Query Match 13.4%; Score 135; DB 21; Length 41;  
 Best Local Similarity 90.0%; Pred. No. 4.3e-06; 1; Mismatches 27; Conservative 1; Indels 0; Gaps 0;

OY 1 MRLALRLLAARPGGGPPTLULLPVGRKTR 30  
 Db 1 mlralnrlaarpggapptlllpvrgpr 30

---

RESULT 6

ID AAY58633 standard; Protein; 1299 AA.

XX AAY58633;

XX 11-APR-2000 (first entry)

DE Protein regulating gene expression PRGE-26.

KW Protein regulating gene expression; PRGE-26; human; cell proliferation; antiproliferative; inflammation; antiinflammatory; therapy; diagnosis.

XX Homo sapiens.

OS

FH Key Modified-site

FT Location/Qualifiers

FT Modified-site 85  
 /note= "O-phosphorylated"

FT Modified-site 139  
 /note= "O-phosphorylated"

FT Modified-site 160  
 /note= "O-phosphorylated"

FT Modified-site 199  
 /note= "O-phosphorylated"

FT Modified-site 225  
 /note= "O-phosphorylated"

FT Modified-site 277  
 /note= "O-phosphorylated"

FT Modified-site 284  
 /note= "O-phosphorylated"

FT Modified-site 335  
 /note= "O-phosphorylated"

FT Modified-site 340  
 /note= "O-phosphorylated"

FT Modified-site 382  
 /note= "O-phosphorylated"

FT FT Modified-site /note= "O-phosphorylated" 392  
 FT FT Modified-site /note= "O-phosphorylated" 412  
 FT FT Modified-site /note= "O-phosphorylated" 424  
 FT FT Modified-site /note= "O-phosphorylated" 480  
 FT FT Modified-site /note= "O-phosphorylated" 505  
 FT FT Modified-site /note= "O-phosphorylated" 684  
 FT FT Modified-site /note= "O-phosphorylated" 690  
 FT FT Modified-site /note= "O-phosphorylated" 702  
 FT FT Modified-site /note= "O-phosphorylated" 708  
 FT FT Modified-site /note= "O-phosphorylated" 945  
 FT FT Modified-site /note= "O-phosphorylated" 1001  
 FT FT Modified-site /note= "O-phosphorylated" 1067  
 FT FT Modified-site /note= "O-phosphorylated" 1166  
 FT FT Modified-site /note= "O-phosphorylated" 1253  
 FT FT Modified-site /note= "O-phosphorylated" 1295  
 FT FT Modified-site /note= "O-phosphorylated" 105  
 FT FT Modified-site /note= "O-phosphorylated" 122  
 FT FT Modified-site /note= "O-phosphorylated" 225  
 FT FT Modified-site /note= "O-phosphorylated" 308  
 FT FT Modified-site /note= "O-phosphorylated" 351  
 FT FT Modified-site /note= "O-phosphorylated" 359  
 FT FT Modified-site /note= "O-phosphorylated" 377  
 FT FT Modified-site /note= "O-phosphorylated" 405  
 FT FT Modified-site /note= "O-phosphorylated" 461  
 FT FT Modified-site /note= "O-phosphorylated" 665  
 FT FT Modified-site /note= "O-phosphorylated" 998  
 FT FT Modified-site /note= "O-phosphorylated" 1092  
 FT FT Modified-site /note= "O-phosphorylated" 1108  
 FT FT Modified-site /note= "O-phosphorylated" 1260  
 FT FT Modified-site /note= "O-phosphorylated" 1285  
 FT FT Modified-site /note= "O-phosphorylated" 43  
 FT FT Modified-site /note= "O-phosphorylated" 136  
 FT FT Modified-site /note= "O-phosphorylated" 277  
 FT FT Modified-site /note= "O-phosphorylated" 284  
 FT FT Modified-site /note= "O-phosphorylated" 168  
 FT FT Modified-site /note= "O-phosphorylated" 91  
 FT FT Modified-site /note= "N-glycosylated" 934  
 FT FT Modified-site /note= "N-glycosylated" 382

FT	Modified-site	991	/note- "N-glycosylated"	AC	AAG07955;
FT	Modified-site	1031	/note- "N-glycosylated"	XX	DT 17-OCT-2000 (first entry)
FT	Modified-site	1090	/note- "N-glycosylated"	XX	DE Arabidopsis thaliana protein fragment SEQ ID NO: 5303.
FT	Modified-site	1098	/note- "N-glycosylated"	KN	Protein identification; signal transduction pathway; metabolic pathway;
FT	Modified-site	1235	/note- "N-glycosylated"	KW	hybridisation assay; genetic mapping; gene expression control; promoter;
FT	Modified-site	1246	/note- "N-glycosylated"	OS	termination sequence.
FT	Modified-site	1282	/note- "N-glycosylated"	XX	Arabidopsis thaliana.
FT			/note- "N-glycosylated"	PN	EP1033405-A2.
XX				XX	
PN	WO9964596-A2.			PD	06-SEP-2000.
XX				XX	
PF				PF	25-FEB-2000; 2000EP-0301439.
XX				XX	
PF	11-JUN-1999;	99WO-US13281.		PR	25-FEB-1999; 99US-0121835.
XX				PR	03-MAR-1999; 99US-0123180.
PR	12-JUN-1998;	98US-0089029.		PR	09-MAR-1999; 99US-0123548.
PR	29-JUL-1998;	98US-0034575.		PR	23-MAR-1999; 99US-0125788.
PR	14-OCT-1998;	98US-0104624.		PR	25-MAR-1999; 99US-0126284.
PS	(INCY-) INCYTE PHARM INC.			PR	29-MAR-1999; 99US-0126735.
PA	Lal P, Yue H, Tang YT, Hillman JL, Bandman O, Corley NC;			PR	01-APR-1999; 99US-0127462.
PI	Guegler KJ, Gorgone GA, Baughn MR, Patterson C, Lu DAM;			PR	06-APR-1999; 99US-0128234.
XX				PR	08-APR-1999; 99US-0128714.
DR	WPI: 2000-116543/10.			PR	16-APR-1999; 99US-0129845.
DR	N-PSDB; RAZ58864.			PR	19-APR-1999; 99US-0130077.
XX				PR	21-APR-1999; 99US-013049.
PT	New human polypeptides that regulate gene expression, for treatment, prevention and diagnosis of, e.g. cancer			PR	23-APR-1999; 99US-0130510.
PT				PR	23-APR-1999; 99US-0130891.
XX				PR	28-APR-1999; 99US-0131449.
CC	The present sequence is that of new human protein regulating gene expression PRGE-26, deduced from Incyte clone PT1UN001 (see RAZ5764) isolated from pituitary gland cDNA library. PRGE-26 is expressed in reproductive, nervous and gastrointestinal tissues associated with cell proliferative and inflammatory diseases, disorders or conditions.			PR	30-APR-1999; 99US-0132048.
CC	It is characterised as a glutamine-rich protein. The invention provides PRGE polypeptides (see RAZ5808-38) and polynucleotides (see RAZ7839-69), expression vectors, host cells, antibodies and antagonists. It also provides methods for diagnosing, treating or preventing disorders associated with expression of PRGE.			PR	04-MAY-1999; 99US-0132484.
CC				PR	05-MAY-1999; 99US-0132435.
CC				PR	06-MAY-1999; 99US-0132486.
CC				PR	06-MAY-1999; 99US-0132487.
CC				PR	07-MAY-1999; 99US-0132863.
CC				PR	11-MAY-1999; 99US-0134256.
CC				PR	14-MAY-1999; 99US-0134218.
CC				PR	14-MAY-1999; 99US-0134219.
CC				PR	14-MAY-1999; 99US-0134221.
CC				PR	14-MAY-1999; 99US-0134370.
CC				PR	18-MAY-1999; 99US-0134768.
CC				PR	19-MAY-1999; 99US-0134941.
CC				PR	20-MAY-1999; 99US-0135114.
XX				PR	21-MAY-1999; 99US-0135353.
SQ	Sequence 1299 AA;			PR	24-MAY-1999; 99US-0135629.
				PR	25-MAY-1999; 99US-0136021.
				PR	27-MAY-1999; 99US-0136392.
				PR	28-MAY-1999; 99US-0136782.
	Best Local Similarity 29.1%; Pred. No. 0.0022; Mismatches 44; Conservative 29; Mismatches 62; Indels 16; Gaps 5;			PR	01-JUN-1999; 99US-0137222.
QY	58 ERYRQ--YRETIVRARRETLELRKGHLRKAQVLAERKQAEMIREH---LMANR 110			PR	03-JUN-1999; 99US-0137528.
Db	754 erkqrgeelrrqeeillrqeqeekrreee---larrkqealrrrqeqealrqrq 809			PR	04-JUN-1999; 99US-0137502.
QY	111 EENRRLQELRIARLQLQEAQELRQAEVAQRAQEEOA-WVOLKEQEVLKQBKAIFI 168			PR	07-JUN-1999; 99US-0137724.
Db	810 eerdqgqeealrrleerrreeeerkqeqealkqeqeakwaaekwaaeqrllr 866			PR	08-JUN-1999; 99US-0138094.
QY	169 TRENERARTEALSPSKSTNWAVKQGVRR 199			PR	10-JUN-1999; 99US-0138540.
Db	867 rmeeeeaairirheeeerkkrkelevqrqkelmr 897			PR	10-JUN-1999; 99US-0138847.
RESULT	7			PR	14-JUN-1999; 99US-0139119.
ID	AG07955			PR	16-JUN-1999; 99US-0139452.
XX	AG07955 standard; Protein; 176 AA.			PR	16-JUN-1999; 99US-0139453.
				PR	17-JUN-1999; 99US-0139492.
				PR	18-JUN-1999; 99US-0139454.
				PR	18-JUN-1999; 99US-0139455.
				PR	18-JUN-1999; 99US-0139456.
				PR	18-JUN-1999; 99US-0139457.
				PR	18-JUN-1999; 99US-0139459.
				PR	18-JUN-1999; 99US-0139460.
				PR	18-JUN-1999; 99US-0139461.
				PR	18-JUN-1999; 99US-0139462.

7

Query	Match	Score	DB	Length	176;
18-JUN-1999;	99US-0139463.		PR	26-AUG-1999;	99US-0150884.
PR 18-JUN-1999;	99US-0139763.		PR	27-AUG-1999;	99US-0151066.
PR 18-JUN-1999;	99US-0139817.		PR	27-AUG-1999;	99US-0151080.
PR 21-JUN-1999;	99US-0139899.		PR	30-AUG-1999;	99US-0151103.
PR 22-JUN-1999;	99US-0139899.		PR	31-AUG-1999;	99US-0151138.
PR 23-JUN-1999;	99US-0140353.		PR	01-SEP-1999;	99US-0151190.
PR 23-JUN-1999;	99US-0140354.		PR	07-SEP-1999;	99US-0152363.
PR 24-JUN-1999;	99US-0140695.		PR	10-SEP-1999;	99US-0153070.
PR 28-JUN-1999;	99US-0140823.		PR	13-SEP-1999;	99US-0153758.
PR 28-JUN-1999;	99US-0140991.		PR	15-SEP-1999;	99US-0154039.
PR 30-JUN-1999;	99US-0141287.		PR	16-SEP-1999;	99US-0154779.
PR 01-JUL-1999;	99US-0141842.		PR	20-SEP-1999;	99US-0155119.
PR 01-JUL-1999;	99US-0142154.		PR	22-SEP-1999;	99US-0155486.
PR 02-JUL-1999;	99US-0142055.		PR	23-SEP-1999;	99US-0155307.
PR 06-JUL-1999;	99US-0142390.		PR	24-SEP-1999;	99US-0155659.
PR 08-JUL-1999;	99US-0142803.		PR	28-SEP-1999;	99US-0156458.
PR 09-JUL-1999;	99US-0142920.		PR	29-SEP-1999;	99US-0156595.
PR 12-JUL-1999;	99US-0142977.		PR	04-OCT-1999;	99US-0157117.
PR 13-JUL-1999;	99US-0143542.		PR	05-OCT-1999;	99US-0157753.
PR 14-JUL-1999;	99US-0143624.		PR	06-OCT-1999;	99US-0157865.
PR 15-JUL-1999;	99US-0144005.		PR	07-OCT-1999;	99US-0158029.
PR 16-JUL-1999;	99US-0144085.		PR	08-OCT-1999;	99US-0158232.
PR 16-JUL-1999;	99US-0144086.		PR	12-OCT-1999;	99US-0158369.
PR 19-JUL-1999;	99US-0144325.		PR	13-OCT-1999;	99US-015893.
PR 19-JUL-1999;	99US-0144331.		PR	13-OCT-1999;	99US-0159294.
PR 19-JUL-1999;	99US-0144332.		PR	14-OCT-1999;	99US-0159329.
PR 19-JUL-1999;	99US-0144333.		PR	14-OCT-1999;	99US-0159330.
PR 19-JUL-1999;	99US-0144335.		PR	14-OCT-1999;	99US-0159331.
PR 19-JUL-1999;	99US-0144352.		PR	14-OCT-1999;	99US-0159337.
PR 20-JUL-1999;	99US-0144632.		PR	14-OCT-1999;	99US-0159637.
PR 20-JUL-1999;	99US-0144884.		PR	14-OCT-1999;	99US-0159738.
PR 21-JUL-1999;	99US-0144814.		PR	15-OCT-1999;	99US-0159884.
PR 19-JUL-1999;	99US-0144334.		PR	15-OCT-1999;	99US-0159984.
PR 19-JUL-1999;	99US-0144335.		PR	16-OCT-1999;	99US-0160741.
PR 20-JUL-1999;	99US-0144352.		PR	21-OCT-1999;	99US-0160767.
PR 22-JUL-1999;	99US-0145087.		PR	21-OCT-1999;	99US-0160770.
PR 22-JUL-1999;	99US-0145089.		PR	21-OCT-1999;	99US-0160814.
PR 22-JUL-1999;	99US-0145192.		PR	21-OCT-1999;	99US-0160915.
PR 23-JUL-1999;	99US-0145145.		PR	22-OCT-1999;	99US-0160980.
PR 23-JUL-1999;	99US-014518.		PR	22-OCT-1999;	99US-0160981.
PR 23-JUL-1999;	99US-0145224.		PR	22-OCT-1999;	99US-0160989.
PR 26-JUL-1999;	99US-0145276.		PR	25-OCT-1999;	99US-0161404.
PR 27-JUL-1999;	99US-0145913.		PR	25-OCT-1999;	99US-0161405.
PR 27-JUL-1999;	99US-0145918.		PR	25-OCT-1999;	99US-0161406.
PR 27-JUL-1999;	99US-0145919.		PR	26-OCT-1999;	99US-0161359.
PR 28-JUL-1999;	99US-0146386.		PR	26-OCT-1999;	99US-0161360.
PR 02-AUG-1999;	99US-0146388.		PR	26-OCT-1999;	99US-0161361.
PR 02-AUG-1999;	99US-0146389.		PR	28-OCT-1999;	99US-0161920.
PR 03-AUG-1999;	99US-0147038.		PR	28-OCT-1999;	99US-0161992.
PR 04-AUG-1999;	99US-0147704.		PR	28-OCT-1999;	99US-0161993.
PR 05-AUG-1999;	99US-0147302.		PR	29-OCT-1999;	99US-0162142.
PR 05-AUG-1999;	99US-0147792.				
PR 05-AUG-1999;	99US-0147760.				
PR 06-AUG-1999;	99US-0147303.				
PR 06-AUG-1999;	99US-0147116.				
PR 09-AUG-1999;	99US-0147493.				
PR 09-AUG-1999;	99US-0147935.				
PR 10-AUG-1999;	99US-0148171.				
PR 11-AUG-1999;	99US-0148319.				
PR 12-AUG-1999;	99US-0148341.				
PR 13-AUG-1999;	99US-0148565.				
PR 13-AUG-1999;	99US-0148684.				
PR 16-AUG-1999;	99US-0149368.				
PR 17-AUG-1999;	99US-0149175.				
PR 18-AUG-1999;	99US-0149426.				
PR 20-AUG-1999;	99US-0149722.				
PR 20-AUG-1999;	99US-0149723.				
PR 20-AUG-1999;	99US-0149929.				
PR 23-AUG-1999;	99US-0149932.				
PR 23-AUG-1999;	99US-0149930.				
PR 25-AUG-1999;	99US-0150566.				

Query Match Best Local Similarity 29.2%; Pred. No. 0.00023; Mismatches 51; Indels 10; Gaps 3;

QY 56 LITERYRQEYRVALRREFLEVR---GKLHLEARAGVLAERKQAERHEOBELMANNRE 111  
Db 47 laglrrdyakkvvrkeyk|theimlrvrekqrkdearlaeraaneerriklaakvra 106

QY 112 ENRQLQELRIARLQEAQELRQAEVQRAQEQQEQAWVOLKEOEVILQEEAKNFIRE 171  
Db 107 eerkiaeefrqtliveraklemwkmqgkree----kikerekI-lredsslwieqk 160

QY 172 NLEARIEEAL 181  
Db 161 elerkiteal 170

XX  
 AC AGA48163;  
 XX  
 DT 18-OCT-2000 (first entry)  
 XX  
 DE Arabidopsis thaliana protein fragment SEQ ID NO: 60821.  
 KW Protein identification; signal transduction pathway; metabolic pathway;  
 KW hybridisation assay; genetic mapping; gene expression control; promoter;  
 KW termination sequence.  
 OS Arabidopsis thaliana.  
 XX EP1033405-A2.  
 XX  
 PN 06-SEP-2000.  
 XX  
 PF 25-FEB-2000; 2000EP-0301439.  
 XX  
 PR 25-FEB-1999; 99US-0121825.  
 PR 05-MAR-1999; 99US-0123180.  
 PR 09-MAR-1999; 99US-0123548.  
 PR 23-MAR-1999; 99US-0125788.  
 PR 25-MAR-1999; 99US-0126264.  
 PR 29-MAR-1999; 99US-0126785.  
 PR 01-APR-1999; 99US-0127462.  
 PR 06-APR-1999; 99US-0128234.  
 PR 08-APR-1999; 99US-0128714.  
 PR 19-APR-1999; 99US-0129845.  
 PR 21-APR-1999; 99US-0130077.  
 PR 04-MAY-1999; 99US-0130449.  
 PR 05-MAY-1999; 99US-0130510.  
 PR 05-MAY-1999; 99US-0130891.  
 PR 28-APR-1999; 99US-0131449.  
 PR 30-APR-1999; 99US-0132048.  
 PR 11-MAY-1999; 99US-0132407.  
 PR 14-MAY-1999; 99US-0132484.  
 PR 05-MAY-1999; 99US-0132485.  
 PR 05-MAY-1999; 99US-0132486.  
 PR 06-MAY-1999; 99US-0132487.  
 PR 07-MAY-1999; 99US-0132863.  
 PR 11-MAY-1999; 99US-0134256.  
 PR 14-MAY-1999; 99US-0134218.  
 PR 20-MAY-1999; 99US-0134219.  
 PR 24-MAY-1999; 99US-0134221.  
 PR 14-MAY-1999; 99US-0134370.  
 PR 25-MAY-1999; 99US-0134370.  
 PR 19-MAY-1999; 99US-0134941.  
 PR 28-MAY-1999; 99US-0135124.  
 PR 01-JUN-1999; 99US-0135353.  
 PR 03-JUN-1999; 99US-0135353.  
 PR 04-JUN-1999; 99US-0135829.  
 PR 05-JUN-1999; 99US-0136021.  
 PR 08-JUN-1999; 99US-0136782.  
 PR 10-JUN-1999; 99US-0138540.  
 PR 10-JUN-1999; 99US-0138847.  
 PR 14-JUN-1999; 99US-0139119.  
 PR 16-JUN-1999; 99US-0139452.  
 PR 07-JUN-1999; 99US-0139453.  
 PR 17-JUN-1999; 99US-0138994.  
 PR 18-JUN-1999; 99US-0139454.  
 PR 18-JUN-1999; 99US-0139455.  
 PR 18-JUN-1999; 99US-0139457.  
 PR 18-JUN-1999; 99US-0139458.  
 PR 18-JUN-1999; 99US-0139459.  
 PR 18-JUN-1999; 99US-0139460.  
 PR 18-JUN-1999; 99US-0139461.

---

PR 18-JUN-1999; 99US-0139462.  
 PR 18-JUN-1999; 99US-0139463.  
 PR 18-JUN-1999; 99US-0139750.  
 PR 18-JUN-1999; 99US-0139763.  
 PR 21-JUN-1999; 99US-0139817.  
 PR 22-JUN-1999; 99US-0139899.  
 PR 23-JUN-1999; 99US-0140533.  
 PR 24-JUN-1999; 99US-0140554.  
 PR 24-JUN-1999; 99US-0140595.  
 PR 28-JUN-1999; 99US-0140823.  
 PR 29-JUN-1999; 99US-0140891.  
 PR 30-JUN-1999; 99US-0141287.  
 PR 01-JUL-1999; 99US-0141842.  
 PR 01-JUL-1999; 99US-0142154.  
 PR 02-JUL-1999; 99US-0142055.  
 PR 06-JUL-1999; 99US-0142390.  
 PR 08-JUL-1999; 99US-0142803.  
 PR 09-JUL-1999; 99US-0142920.  
 PR 12-JUL-1999; 99US-0142977.  
 PR 13-JUL-1999; 99US-0143242.  
 PR 14-JUL-1999; 99US-014324.  
 PR 15-JUL-1999; 99US-0144005.  
 PR 16-JUL-1999; 99US-0144056.  
 PR 16-JUL-1999; 99US-0144325.  
 PR 19-JUL-1999; 99US-014432.  
 PR 19-JUL-1999; 99US-0144334.  
 PR 19-JUL-1999; 99US-0144335.  
 PR 19-JUL-1999; 99US-0144352.  
 PR 19-JUL-1999; 99US-0144331.  
 PR 19-JUL-1999; 99US-0144332.  
 PR 19-JUL-1999; 99US-014433.  
 PR 19-JUL-1999; 99US-0144334.  
 PR 19-JUL-1999; 99US-0144335.  
 PR 20-JUL-1999; 99US-0144352.  
 PR 20-JUL-1999; 99US-0144632.  
 PR 20-JUL-1999; 99US-0144834.  
 PR 21-JUL-1999; 99US-0144814.  
 PR 21-JUL-1999; 99US-014481.  
 PR 21-JUL-1999; 99US-0145080.  
 PR 21-JUL-1999; 99US-0145088.  
 PR 22-JUL-1999; 99US-0145087.  
 PR 22-JUL-1999; 99US-0145087.  
 PR 22-JUL-1999; 99US-0145089.  
 PR 22-JUL-1999; 99US-0145192.  
 PR 23-JUL-1999; 99US-0145145.  
 PR 23-JUL-1999; 99US-0145218.  
 PR 23-JUL-1999; 99US-0145224.  
 PR 23-JUL-1999; 99US-0145276.  
 PR 26-JUL-1999; 99US-0145276.  
 PR 26-JUL-1999; 99US-0145276.  
 PR 27-JUL-1999; 99US-0145913.  
 PR 27-JUL-1999; 99US-0145918.  
 PR 27-JUL-1999; 99US-0145919.  
 PR 28-JUL-1999; 99US-0145951.  
 PR 02-AUG-1999; 99US-0146386.  
 PR 02-AUG-1999; 99US-0146388.  
 PR 02-AUG-1999; 99US-0146388.  
 PR 02-AUG-1999; 99US-0146389.  
 PR 03-AUG-1999; 99US-0147038.  
 PR 04-AUG-1999; 99US-0147204.  
 PR 04-AUG-1999; 99US-0147302.  
 PR 05-AUG-1999; 99US-0147192.  
 PR 05-AUG-1999; 99US-0147260.  
 PR 05-AUG-1999; 99US-0147260.  
 PR 06-AUG-1999; 99US-0147303.  
 PR 06-AUG-1999; 99US-0147416.  
 PR 13-AUG-1999; 99US-0148656.  
 PR 13-AUG-1999; 99US-0148664.  
 PR 16-AUG-1999; 99US-0149368.  
 PR 09-AUG-1999; 99US-0149375.  
 PR 17-AUG-1999; 99US-0149175.  
 PR 10-AUG-1999; 99US-0149175.  
 PR 11-AUG-1999; 99US-014925.  
 PR 12-AUG-1999; 99US-0149341.  
 PR 12-AUG-1999; 99US-0149341.  
 PR 13-AUG-1999; 99US-0149341.  
 PR 13-AUG-1999; 99US-0149341.  
 PR 16-AUG-1999; 99US-0149341.  
 PR 16-AUG-1999; 99US-0149341.  
 PR 17-AUG-1999; 99US-0149341.  
 PR 17-AUG-1999; 99US-0149341.  
 PR 18-AUG-1999; 99US-0149341.  
 PR 18-AUG-1999; 99US-0149341.  
 PR 20-AUG-1999; 99US-0149722.  
 PR 20-AUG-1999; 99US-0149723.  
 PR 20-AUG-1999; 99US-0149723.  
 PR 23-AUG-1999; 99US-0149902.  
 PR 23-AUG-1999; 99US-0149930.  
 PR 23-AUG-1999; 99US-0149930.

	ID	AAG48204 standard; Protein; 176 AA.
PR	XX	PR
PR	XX	PR
PR	AC	PR
PR	XX	PR
PR	DE	PR
PR	XX	Arabidopsis thaliana protein fragment SBQ ID NO: 60849.
PR	KW	Protein identification; signal transduction pathway; metabolic pathway;
PR	KW	hybridisation assay; genetic mapping; gene expression; control; promoter;
PR	KW	termination sequence.
PR	XX	Arabidopsis thaliana.
PR	OS	
PR	PN	EP1033405-A2.
PR	XX	
PR	PD	06-SEP-2000.
PR	XX	
PR	PF	25-FEB-2000; 2000EP-0301439.
PR	XX	
PR	PR	25-FEB-1999; 99US-0121825.
PR	PR	05-MAR-1999; 99US-0123180.
PR	PR	09-MAR-1999; 99US-0123508.
PR	PR	22-MAR-1999; 99US-0125788.
PR	PR	25-MAR-1999; 99US-0126264.
PR	PR	29-MAR-1999; 99US-0126785.
PR	PR	01-APR-1999; 99US-0127422.
PR	PR	06-APR-1999; 99US-0128234.
PR	PR	08-APR-1999; 99US-012874.
PR	PR	16-APR-1999; 99US-0129845.
PR	PR	19-APR-1999; 99US-0130077.
PR	PR	21-APR-1999; 99US-0130419.
PR	PR	23-APR-1999; 99US-0130510.
PR	PR	23-APR-1999; 99US-0130891.
PR	PR	28-APR-1999; 99US-0131449.
PR	PR	30-APR-1999; 99US-0132048.
PR	PR	04-MAY-1999; 99US-0132484.
PR	PR	05-MAY-1999; 99US-0132485.
PR	PR	06-MAY-1999; 99US-0132486.
PR	PR	06-MAY-1999; 99US-0132487.
PR	PR	07-MAY-1999; 99US-013263.
PR	PR	11-MAY-1999; 99US-0134256.
PR	PR	14-MAY-1999; 99US-0134218.
PR	PR	14-MAY-1999; 99US-0134219.
PR	PR	14-MAY-1999; 99US-0134221.
PR	PR	14-MAY-1999; 99US-0134370.
PR	PR	18-MAY-1999; 99US-0134368.
PR	PR	19-MAY-1999; 99US-0134491.
PR	PR	20-MAY-1999; 99US-0135124.
PR	PR	21-MAY-1999; 99US-0135353.
PR	PR	24-MAY-1999; 99US-0135629.
PR	PR	25-MAY-1999; 99US-0136021.
PR	PR	27-MAY-1999; 99US-0136392.
PR	PR	28-MAY-1999; 99US-0136782.
PR	PR	01-JUN-1999; 99US-0137222.
PR	PR	03-JUN-1999; 99US-0137528.
PR	PR	04-JUN-1999; 99US-0137502.
PR	PR	07-JUN-1999; 99US-0137724.
PR	PR	08-JUN-1999; 99US-0138094.
PR	PR	10-JUN-1999; 99US-0138540.
PR	PR	10-JUN-1999; 99US-0138847.
PR	PR	14-JUN-1999; 99US-0139119.
PR	PR	16-JUN-1999; 99US-0139452.
PR	PR	16-JUN-1999; 99US-0139453.
PR	PR	17-JUN-1999; 99US-0139492.
PR	PR	18-JUN-1999; 99US-0139454.
PR	PR	18-JUN-1999; 99US-0139455.
PR	PR	18-JUN-1999; 99US-0139456.
PR	PR	18-JUN-1999; 99US-0139457.
PR	PR	18-JUN-1999; 99US-0139458.
PR	PR	18-JUN-1999; 99US-0139459.
PR	PR	18-JUN-1999; 99US-0139460.
Query Match	12.5%	Score 125; DB 21; Length 176;
Best Local Similarity	29.2%	Pred. No. 0.00023; N mismatches 3;
Matches	38;	Conservative
Matches	31;	N mismatches 51; Indels 10; Gaps 3;
QY	56	LTERVKYKREVRARREFLEVR---GKLHARAGYLAERKAQEATREHQLELMWNR 111
Do	47	lqrrdyakkrvvrkeyheiamlrvakqrkdearlaeraaneeerrllkaeaakvra 106
QY	112	ENRLOELRLTARLQLEAQALRQAEVQARADEEQAWVOLQKQEVLQKEAKNFTRE 171
Do	107	eerkideefrqtlkileraeklemlwmkmqgkree----kikerek1-lreqsslwieqk 160
QY	172	NEARTEAL 181
Do	161	elerkiteal 170

PR	18-JUN-1999;	99US-0139461.	PR	23-AUG-1999;	99US-0149930.
PR	18-JUN-1999;	99US-0139462.	PR	25-AUG-1999;	99US-0149936.
PR	18-JUN-1999;	99US-0139463.	PR	26-AUG-1999;	99US-0150884.
PR	18-JUN-1999;	99US-0139750.	PR	27-AUG-1999;	99US-0151065.
PR	18-JUN-1999;	99US-0139763.	PR	27-AUG-1999;	99US-0151066.
PR	21-JUN-1999;	99US-0139817.	PR	27-AUG-1999;	99US-0151080.
PR	22-JUN-1999;	99US-0139899.	PR	30-AUG-1999;	99US-0151303.
PR	23-JUN-1999;	99US-0140353.	PR	31-AUG-1999;	99US-0151438.
PR	01-JUL-1999;	99US-0141842.	PR	01-SEP-1999;	99US-0151930.
PR	02-JUL-1999;	99US-0142055.	PR	07-SEP-1999;	99US-0152363.
PR	06-JUL-1999;	99US-0142390.	PR	10-SEP-1999;	99US-0153070.
PR	08-JUL-1999;	99US-0142803.	PR	13-SEP-1999;	99US-0153758.
PR	09-JUL-1999;	99US-0142920.	PR	15-SEP-1999;	99US-0154018.
PR	12-JUL-1999;	99US-0142977.	PR	16-SEP-1999;	99US-0154039.
PR	13-JUL-1999;	99US-0143542.	PR	20-SEP-1999;	99US-0154779.
PR	14-JUL-1999;	99US-0143624.	PR	22-SEP-1999;	99US-0155139.
PR	15-JUL-1999;	99US-0144005.	PR	23-SEP-1999;	99US-0155486.
PR	16-JUL-1999;	99US-0144085.	PR	24-SEP-1999;	99US-0155559.
PR	17-JUL-1999;	99US-0144295.	PR	28-SEP-1999;	99US-0156158.
PR	19-JUL-1999;	99US-0144331.	PR	29-SEP-1999;	99US-0156396.
PR	19-JUL-1999;	99US-0144332.	PR	04-OCT-1999;	99US-0157753.
PR	19-JUL-1999;	99US-0144333.	PR	05-OCT-1999;	99US-0157753.
PR	19-JUL-1999;	99US-0144334.	PR	13-OCT-1999;	99US-0157805.
PR	19-JUL-1999;	99US-0144335.	PR	13-OCT-1999;	99US-0159255.
PR	20-JUL-1999;	99US-0144352.	PR	14-OCT-1999;	99US-0159329.
PR	20-JUL-1999;	99US-0144884.	PR	14-OCT-1999;	99US-0159329.
PR	21-JUL-1999;	99US-0145086.	PR	14-OCT-1999;	99US-0159329.
PR	21-JUL-1999;	99US-0145088.	PR	14-OCT-1999;	99US-0159330.
PR	21-JUL-1999;	99US-0145085.	PR	14-OCT-1999;	99US-0159331.
PR	22-JUL-1999;	99US-0145276.	PR	14-OCT-1999;	99US-0159233.
PR	22-JUL-1999;	99US-0145913.	PR	14-OCT-1999;	99US-0159638.
PR	22-JUL-1999;	99US-0145918.	PR	18-OCT-1999;	99US-0159584.
PR	22-JUL-1999;	99US-0145919.	PR	21-OCT-1999;	99US-0160741.
PR	22-JUL-1999;	99US-0145551.	PR	21-OCT-1999;	99US-0160767.
PR	02-AUG-1999;	99US-0145218.	PR	21-OCT-1999;	99US-0160768.
PR	02-AUG-1999;	99US-0145224.	PR	21-OCT-1999;	99US-0160770.
PR	26-JUL-1999;	99US-0145276.	PR	21-OCT-1999;	99US-0160814.
PR	27-JUL-1999;	99US-0145913.	PR	21-OCT-1999;	99US-0160815.
PR	27-JUL-1999;	99US-0145918.	PR	22-OCT-1999;	99US-0160900.
PR	27-JUL-1999;	99US-0145919.	PR	22-OCT-1999;	99US-0160981.
PR	28-JUL-1999;	99US-0145551.	PR	22-OCT-1999;	99US-0160989.
PR	02-AUG-1999;	99US-0146386.	PR	25-OCT-1999;	99US-0161404.
PR	02-AUG-1999;	99US-0146388.	PR	25-OCT-1999;	99US-0161405.
PR	03-AUG-1999;	99US-0147038.	PR	25-OCT-1999;	99US-0161406.
PR	04-AUG-1999;	99US-0147204.	PR	26-OCT-1999;	99US-0161359.
PR	05-AUG-1999;	99US-0147192.	PR	26-OCT-1999;	99US-0161360.
PR	05-AUG-1999;	99US-0147260.	PR	26-OCT-1999;	99US-0161361.
PR	06-AUG-1999;	99US-0147303.	PR	28-OCT-1999;	99US-0161920.
PR	06-AUG-1999;	99US-0147416.	PR	28-OCT-1999;	99US-0161922.
PR	09-AUG-1999;	99US-0147493.	PR	28-OCT-1999;	99US-0161993.
PR	10-AUG-1999;	99US-0148171.	PR	29-OCT-1999;	99US-0162142.
PR	11-AUG-1999;	99US-0148319.			
PR	12-AUG-1999;	99US-0148341.			
PR	13-AUG-1999;	99US-0148565.			
PR	13-AUG-1999;	99US-0148684.			
PR	16-AUG-1999;	99US-0149368.			
PR	17-AUG-1999;	99US-0149175.			
PR	18-AUG-1999;	99US-0149426.			
PR	20-AUG-1999;	99US-0149723.			
PR	20-AUG-1999;	99US-0149929.			
PR	23-AUG-1999;	99US-0149902.			

Query Match Similarity 12.5%; Score 125; DB 21; Length 176;  
 Best Local Matches 38; Conservative 31; Mismatches 51; Indels 10; Gaps 3;

Oy 56 LTERYQRETRVVALRREFTLEVR---GKLHSEARAGYLAAERQAETREHOLEMANRE 111  
 Db 47 laqrrdyakvrvkeyihelmlrvkqrkdearlaeraaneerllikeaakva 106

Oy 112 ENRRIQELRLARLQEAQQLRQAEVQMRDQEAWOLKQEVLUQEEKNFTR 171  
 Db 107 eerkiadeefrqtkikerakemlwkmqgkree---kikerek-lreqlsliwiegk 160

Oy 172 NLEARTEAL 181

Db 161 elerkiteal 170



PR	23-AUG-1999;	99US-0149902.
PR	21-AUG-1999;	99US-0149930.
PR	25-AUG-1999;	99US-0150566.
PR	26-AUG-1999;	99US-0150884.
PR	27-AUG-1999;	99US-0151065.
PR	27-AUG-1999;	99US-0151080.
PR	30-AUG-1999;	99US-0151303.
PR	31-AUG-1999;	99US-0151438.
PR	01-SEP-1999;	99US-0151930.
PR	01-SEP-1999;	99US-0152363.
PR	13-SEP-1999;	99US-0153758.
PR	15-SEP-1999;	99US-0154018.
PR	20-SEP-1999;	99US-0154039.
PR	22-SEP-1999;	99US-0155139.
PR	23-SEP-1999;	99US-0155486.
PR	24-SEP-1999;	99US-0155659.
PR	28-SEP-1999;	99US-0156458.
PR	29-SEP-1999;	99US-0156596.
PR	04-OCT-1999;	99US-0157117.
PR	05-OCT-1999;	99US-0157753.
PR	06-OCT-1999;	99US-0157865.
PR	07-OCT-1999;	99US-0158029.
PR	08-OCT-1999;	99US-0158232.
PR	12-OCT-1999;	99US-0158369.
PR	13-OCT-1999;	99US-0159293.
PR	13-OCT-1999;	99US-0159638.
PR	13-OCT-1999;	99US-015984.
PR	14-OCT-1999;	99US-0159329.
PR	14-OCT-1999;	99US-0159330.
PR	14-OCT-1999;	99US-0159331.
PR	14-OCT-1999;	99US-0159637.
PR	14-OCT-1999;	99US-0159814.
PR	18-OCT-1999;	99US-015984.
PR	21-OCT-1999;	99US-0160815.
PR	21-OCT-1999;	99US-0160741.
PR	21-OCT-1999;	99US-0160767.
PR	21-OCT-1999;	99US-0160768.
PR	21-OCT-1999;	99US-0160770.
PR	21-OCT-1999;	99US-0160814.
PR	25-OCT-1999;	99US-0161406.
PR	26-OCT-1999;	99US-0161359.
PR	26-OCT-1999;	99US-0161360.
PR	26-OCT-1999;	99US-0161361.
PR	28-OCT-1999;	99US-0161920.
PR	28-OCT-1999;	99US-0161992.
PR	28-OCT-1999;	99US-0161993.
PR	29-OCT-1999;	99US-0162142.
Query Match Score 125; DB 21; Length 195;		
Best Local Similarity 29.8%; Pred. No. 0_00026;		
Matches 38; Conservative 31; Mismatches 51; Indels 10; Gaps 3;		
QY	56 LTERYIROYRETVALTREFTLEVR---GKIHARGVLAERKAQEFAIREHQELMAWNRE 111	
QY	66 laqrlrdyakkvvrykeyihemlrvkirkdaallaeraanerillkaeakvra 125	
Db	112 ENRRLPBLIRIARTLQLRQAQEUROAQADRAQEQBESWKLQBEAKNFTRE 171	
Db	126 eerkiddeefrqtlkieraeklemwkmqkree---kikerek-lreqsswiwegk 179	
QY	172 NEARIEEAL 181	
QY	172 NEARIEEAL 181	
Db	180 elerkiteal 189	
RESULT 11		
ID	AAG48182	standard; Protein; 195 AA.
XX	AAG48182;	
AC		
XX		
DT	18-OCT-2000	(first entry)
XX		
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 60820.	
XX		
KW	Protein identification; signal transduction pathway; metabolic pathway;	
KW	hybridisation assay; genetic mapping; gene expression control; promoter;	
KW	termination sequence.	
XX		
OS	Arabidopsis thaliana.	
XX		
PN	EP1033405-K2.	
XX		
PD	06-SEP-2000.	
XX		
PF	25-FEB-2000; 2000EP-0301439.	
XX		
PR	25-FEB-1999; 99US-0121825.	
PR	05-MAR-1999; 99US-0123180.	
PR	09-MAR-1999; 99US-0123582.	
PR	23-MAR-1999; 99US-0125788.	
PR	25-MAR-1999; 99US-0126264.	
PR	27-MAR-1999; 99US-0126785.	
PR	01-APR-1999; 99US-0127462.	
PR	06-APR-1999; 99US-0128234.	
PR	08-APR-1999; 99US-0128714.	
PR	16-APR-1999; 99US-0129845.	
PR	19-APR-1999; 99US-0130077.	
PR	21-APR-1999; 99US-013049.	
PR	23-APR-1999; 99US-0130510.	
PR	23-APR-1999; 99US-0130891.	
PR	28-APR-1999; 99US-0131449.	
PR	30-APR-1999; 99US-0132045.	
PR	30-APR-1999; 99US-0132407.	
PR	04-MAY-1999; 99US-013284.	
PR	05-MAY-1999; 99US-0132483.	
PR	06-MAY-1999; 99US-0132486.	
PR	06-MAY-1999; 99US-0132487.	
PR	07-MAY-1999; 99US-0132863.	
PR	11-MAY-1999; 99US-0134256.	
PR	14-MAY-1999; 99US-0134218.	
PR	14-MAY-1999; 99US-013421.	
PR	14-MAY-1999; 99US-0134221.	
PR	14-MAY-1999; 99US-0134370.	
PR	18-MAY-1999; 99US-0134768.	
PR	19-MAY-1999; 99US-0134941.	
PR	20-MAY-1999; 99US-0135124.	
PR	21-MAY-1999; 99US-0135353.	
PR	24-MAY-1999; 99US-0135629.	
PR	25-MAY-1999; 99US-0136021.	
PR	27-MAY-1999; 99US-0136392.	
PR	28-MAY-1999; 99US-0136782.	
PR	01-JUN-1999; 99US-013722.	
PR	03-JUN-1999; 99US-013752.	
PR	04-JUN-1999; 99US-0137502.	
PR	07-JUN-1999; 99US-0137724.	
PR	08-JUN-1999; 99US-0138094.	
PR	10-JUN-1999; 99US-0138540.	
PR	10-JUN-1999; 99US-0138847.	
PR	14-JUN-1999; 99US-013911.	
PR	16-JUN-1999; 99US-0139452.	
PR	16-JUN-1999; 99US-0139453.	
PR	17-JUN-1999; 99US-0139492.	
PR	18-JUN-1999; 99US-0139454.	
PR	18-JUN-1999; 99US-0139455.	
PR	18-JUN-1999; 99US-0139456.	
PR	18-JUN-1999; 99US-0139457.	
PR	18-JUN-1999; 99US-0139458.	

PR 18-JUN-1999; 99US-0139459. PR 20-AUG-1999; 99US-0149929.  
 PR 18-JUN-1999; 99US-0139460. PR 23-AUG-1999; 99US-0149930.  
 PR 18-JUN-1999; 99US-0139462. PR 25-AUG-1999; 99US-0150666.  
 PR 18-JUN-1999; 99US-0139463. PR 26-AUG-1999; 99US-0150884.  
 PR 18-JUN-1999; 99US-0139750. PR 27-AUG-1999; 99US-0151655.  
 PR 18-JUN-1999; 99US-0139751. PR 27-AUG-1999; 99US-0151080.  
 PR 21-JUN-1999; 99US-0139817. PR 30-AUG-1999; 99US-0151033.  
 PR 22-JUN-1999; 99US-0139899. PR 31-AUG-1999; 99US-0151338.  
 PR 23-JUN-1999; 99US-0140354. PR 01-SEP-1999; 99US-0151910.  
 PR 24-JUN-1999; 99US-0140695. PR 07-SEP-1999; 99US-0152363.  
 PR 28-JUN-1999; 99US-0140823. PR 10-SEP-1999; 99US-0153070.  
 PR 29-JUN-1999; 99US-0140991. PR 13-SEP-1999; 99US-0153758.  
 PR 30-JUN-1999; 99US-0141287. PR 15-SEP-1999; 99US-0154018.  
 PR 01-JUL-1999; 99US-0141842. PR 16-SEP-1999; 99US-0154039.  
 PR 01-JUL-1999; 99US-0142134. PR 20-SEP-1999; 99US-0154779.  
 PR 02-JUL-1999; 99US-0142055. PR 22-SEP-1999; 99US-0155139.  
 PR 06-JUL-1999; 99US-0142390. PR 23-SEP-1999; 99US-0155486.  
 PR 08-JUL-1999; 99US-0142803. PR 24-SEP-1999; 99US-0155659.  
 PR 09-JUL-1999; 99US-0142920. PR 28-SEP-1999; 99US-0156458.  
 PR 12-JUL-1999; 99US-0142977. PR 29-SEP-1999; 99US-0156596.  
 PR 13-JUL-1999; 99US-0143542. PR 04-OCT-1999; 99US-0157117.  
 PR 14-JUL-1999; 99US-0143624. PR 05-OCT-1999; 99US-0157753.  
 PR 15-JUL-1999; 99US-0144005. PR 06-OCT-1999; 99US-0157865.  
 PR 16-JUL-1999; 99US-0144085. PR 07-OCT-1999; 99US-0158029.  
 PR 16-JUL-1999; 99US-0144086. PR 08-OCT-1999; 99US-0158232.  
 PR 19-JUL-1999; 99US-0144325. PR 12-OCT-1999; 99US-0158369.  
 PR 19-JUL-1999; 99US-0144331. PR 13-OCT-1999; 99US-0159293.  
 PR 19-JUL-1999; 99US-0144334. PR 14-OCT-1999; 99US-0159294.  
 PR 19-JUL-1999; 99US-0144334. PR 15-OCT-1999; 99US-0159295.  
 PR 19-JUL-1999; 99US-0144334. PR 16-OCT-1999; 99US-0159329.  
 PR 19-JUL-1999; 99US-0144335. PR 17-OCT-1999; 99US-0159330.  
 PR 20-JUL-1999; 99US-0144332. PR 18-OCT-1999; 99US-0159331.  
 PR 20-JUL-1999; 99US-0144684. PR 19-OCT-1999; 99US-0159332.  
 PR 21-JUL-1999; 99US-0144884. PR 20-OCT-1999; 99US-0159333.  
 PR 21-JUL-1999; 99US-0145086. PR 21-OCT-1999; 99US-0159334.  
 PR 21-JUL-1999; 99US-0145088. PR 22-OCT-1999; 99US-0159335.  
 PR 22-JUL-1999; 99US-0145097. PR 23-OCT-1999; 99US-0159336.  
 PR 22-JUL-1999; 99US-0145099. PR 24-OCT-1999; 99US-0159337.  
 PR 22-JUL-1999; 99US-0145152. PR 25-OCT-1999; 99US-0159338.  
 PR 22-JUL-1999; 99US-0145152. PR 26-OCT-1999; 99US-0160741.  
 PR 23-JUL-1999; 99US-0145218. PR 27-OCT-1999; 99US-0160767.  
 PR 23-JUL-1999; 99US-0145224. PR 28-OCT-1999; 99US-0160768.  
 PR 26-JUL-1999; 99US-0145277. PR 29-OCT-1999; 99US-0159637.  
 PR 27-JUL-1999; 99US-0145913. PR 30-OCT-1999; 99US-0159638.  
 PR 27-JUL-1999; 99US-0145918. PR 31-OCT-1999; 99US-0159639.  
 PR 27-JUL-1999; 99US-0145919. PR 21-OCT-1999; 99US-0160814.  
 PR 28-JUL-1999; 99US-0145951. PR 22-OCT-1999; 99US-0160815.  
 PR 02-AUG-1999; 99US-0146385. PR 23-OCT-1999; 99US-0160980.  
 PR 02-AUG-1999; 99US-0146389. PR 24-OCT-1999; 99US-0160981.  
 PR 03-AUG-1999; 99US-0147030. PR 25-OCT-1999; 99US-0160989.  
 PR 04-AUG-1999; 99US-0147204. PR 26-OCT-1999; 99US-0161361.  
 PR 05-AUG-1999; 99US-0147302. PR 27-OCT-1999; 99US-0161404.  
 PR 05-AUG-1999; 99US-0147260. PR 28-OCT-1999; 99US-0161405.  
 PR 06-AUG-1999; 99US-0147303. PR 29-OCT-1999; 99US-0161406.  
 PR 06-AUG-1999; 99US-0147416. PR 25-OCT-1999; 99US-0161359.  
 PR 09-AUG-1999; 99US-014743. PR 26-OCT-1999; 99US-0161360.  
 PR 09-AUG-1999; 99US-0147935. PR 27-OCT-1999; 99US-0161992.  
 PR 10-AUG-1999; 99US-0148171. PR 28-OCT-1999; 99US-0161992.  
 PR 11-AUG-1999; 99US-0148319. PR 28-OCT-1999; 99US-0161992.  
 PR 12-AUG-1999; 99US-0148341. PR 29-OCT-1999; 99US-0161993.  
 PR 13-AUG-1999; 99US-0148565. PR 29-OCT-1999; 99US-0161993.  
 PR 13-AUG-1999; 99US-0148684. PR 29-OCT-1999; 99US-0161993.  
 PR 16-AUG-1999; 99US-0149368. PR 29-OCT-1999; 99US-0161993.  
 PR 17-AUG-1999; 99US-0149175. PR 29-OCT-1999; 99US-0161993.  
 PR 18-AUG-1999; 99US-0149426. PR 29-OCT-1999; 99US-0161993.  
 PR 20-AUG-1999; 99US-0149722. PR 29-OCT-1999; 99US-0161993.

Query Match      Best Local Similarity 12.5%; Score 125; DB 21; Length 195;  
 Matches 38; Conservative 29.8%; Pred. No. 0; 0.0026; Mismatches 51; Indels 10; Gaps 3;

QY 56 LTERYRQYRETVALRLETFLEVRL---GKHLEARGVIAERKAQEATIHQELMAWNE 111  
 Db 66 laqrrdyakkvvvkyihelmlrvkqrdearlaraaneerrllkaeakvra 125

QY 112 ENRLOBLIRIAROLQAQELROAQEVQAOQAQEQAWVOLKEQEVVKQEEAKNFI 171  
 Db 126 eerkiaadeefrqtlkeraklemwkmngqkree---kikerek-lreqsslwieq 179

QY 172 NEARLEEFAL 181  
 Db 180 elerkiteal 189

RESULT 12  
 ID AAG48203 standard; Protein; 195 AA.  
 XX AAG48203;  
 AC XX DT 18-OCT-2000 (first entry)  
 DE Arabidopsis thaliana protein fragment SEQ ID NO: 60848.  
 KW Protein identification; signal transduction pathway; metabolic pathway;  
 hybridisation assay; genetic mapping; gene expression control; promoter;  
 termination sequence.  
 XX OS Arabidopsis thaliana.  
 XX PN EP1033A05-A2.  
 XX PR PD 06-SEP-2000.  
 XX PR PF 25-FEB-2000; 2000EP-0301439.  
 XX PR 25-FEB-1999; 990US-01211825.  
 PR 05-MAR-1999; 990US-0123180.  
 PR 09-MAR-1999; 990US-0123549.  
 PR 25-MAR-1999; 990US-0125788.  
 PR 29-MAR-1999; 990US-0126264.  
 PR 01-APR-1999; 990US-0126785.  
 PR 06-APR-1999; 990US-0128234.  
 PR 08-APR-1999; 990US-0128714.  
 PR 16-APR-1999; 990US-0129845.  
 PR 19-APR-1999; 990US-0130077.  
 PR 23-APR-1999; 990US-0130449.  
 PR 05-MAY-1999; 990US-0130510.  
 PR 23-APR-1999; 990US-0130891.  
 PR 06-MAY-1999; 990US-0133486.  
 PR 07-MAY-1999; 990US-0133487.  
 PR 11-MAY-1999; 990US-0134256.  
 PR 14-MAY-1999; 990US-0134219.  
 PR 14-MAY-1999; 990US-0134221.  
 PR 22-MAY-1999; 990US-0134270.  
 PR 27-MAY-1999; 990US-0136768.  
 PR 28-MAY-1999; 990US-0136782.  
 PR 01-JUN-1999; 990US-0137222.  
 PR 03-JUN-1999; 990US-0137328.  
 PR 16-JUN-1999; 990US-0137502.  
 PR 07-JUN-1999; 990US-0137724.  
 PR 08-JUN-1999; 990US-0138094.  
 PR 10-JUN-1999; 990US-0138540.  
 PR 10-JUN-1999; 990US-0138847.  
 PR 14-JUN-1999; 990US-0139119.  
 PR 04-JUN-1999; 990US-0139452.  
 PR 16-JUN-1999; 990US-0139453.  
 PR 17-JUN-1999; 990US-0139492.  
 PR 18-JUN-1999; 990US-0139454.  
 PR 18-JUN-1999; 990US-0139455.  
 PR 18-JUN-1999; 990US-0139456.  
 PR 18-JUN-1999; 990US-0139457.

---

PR	18-JUN-1999;	990US-0139458.
PR	18-JUN-1999;	990US-0139459.
PR	18-JUN-1999;	990US-0139460.
PR	18-JUN-1999;	990US-0139461.
PR	18-JUN-1999;	990US-0139462.
PR	18-JUN-1999;	990US-0139463.
PR	18-JUN-1999;	990US-0139750.
PR	18-JUN-1999;	990US-0139763.
PR	21-JUN-1999;	990US-0139817.
PR	22-JUN-1999;	990US-0139899.
PR	23-JUN-1999;	990US-0140353.
PR	23-JUN-1999;	990US-0140354.
PR	24-JUN-1999;	990US-0140695.
PR	28-JUN-1999;	990US-0140823.
PR	29-JUN-1999;	990US-0140991.
PR	30-JUN-1999;	990US-0141227.
PR	01-JUL-1999;	990US-0141842.
PR	01-JUL-1999;	990US-0142154.
PR	02-JUL-1999;	990US-0142055.
PR	06-JUL-1999;	990US-0142390.
PR	08-JUL-1999;	990US-0142803.
PR	09-JUL-1999;	990US-0142920.
PR	12-JUL-1999;	990US-0142977.
PR	13-JUL-1999;	990US-0143342.
PR	15-JUL-1999;	990US-0144005.
PR	16-JUL-1999;	990US-0144085.
PR	16-JUL-1999;	990US-0144086.
PR	19-JUL-1999;	990US-0144325.
PR	19-JUL-1999;	990US-0144331.
PR	19-JUL-1999;	990US-0144332.
PR	19-JUL-1999;	990US-0144333.
PR	19-JUL-1999;	990US-0144334.
PR	19-JUL-1999;	990US-0144335.
PR	20-JUL-1999;	990US-0144336.
PR	20-JUL-1999;	990US-0144337.
PR	20-JUL-1999;	990US-0144338.
PR	21-JUL-1999;	990US-0144814.
PR	21-JUL-1999;	990US-0144815.
PR	21-JUL-1999;	990US-0144816.
PR	21-JUL-1999;	990US-0144817.
PR	21-JUL-1999;	990US-0144818.
PR	22-JUL-1999;	990US-0145087.
PR	22-JUL-1999;	990US-0145088.
PR	22-JUL-1999;	990US-0145089.
PR	22-JUL-1999;	990US-0145192.
PR	23-JUL-1999;	990US-0145145.
PR	23-JUL-1999;	990US-0145218.
PR	23-JUL-1999;	990US-0145224.
PR	26-JUL-1999;	990US-0145276.
PR	27-JUL-1999;	990US-0145913.
PR	27-JUL-1999;	990US-0145918.
PR	27-JUL-1999;	990US-0145919.
PR	28-JUL-1999;	990US-0145951.
PR	02-AUG-1999;	990US-0145226.
PR	02-AUG-1999;	990US-0146388.
PR	02-AUG-1999;	990US-0146389.
PR	03-AUG-1999;	990US-0147038.
PR	04-AUG-1999;	990US-0147204.
PR	09-AUG-1999;	990US-0147302.
PR	10-AUG-1999;	990US-0148171.
PR	11-AUG-1999;	990US-0148319.
PR	12-AUG-1999;	990US-0148341.
PR	06-AUG-1999;	990US-0147303.
PR	13-AUG-1999;	990US-0148665.
PR	13-AUG-1999;	990US-0148684.
PR	16-AUG-1999;	990US-0149368.
PR	17-AUG-1999;	990US-0149175.
PR	18-AUG-1999;	990US-014926.
PR	20-AUG-1999;	990US-0149722.

			RESULT	13
PR	20-AUG-1999;	99US-0149723.	AAG0793	
PR	20-AUG-1999;	99US-0149929.	ID	AAG0793 standard; Protein: 266 AA.
PR	23-AUG-1999;	99US-0149902.	XX	
PR	23-AUG-1999;	99US-0149930.	XX	
PR	25-AUG-1999;	99US-0150566.	AC	
PR	26-AUG-1999;	99US-0150884.	XX	
PR	27-AUG-1999;	99US-0151065.	DT	17-OCT-2000 (first entry)
PR	27-AUG-1999;	99US-0151066.	XX	
PR	27-AUG-1999;	99US-0151080.	DE	Arabidopsis thaliana protein fragment SEQ ID NO: 5301.
PR	30-AUG-1999;	99US-0151303.	XX	
PR	31-AUG-1999;	99US-0151438.	XX	
PR	01-SEP-1999;	99US-0151930.	KW	Protein identification; signal transduction pathway; metabolic pathway;
PR	07-SEP-1999;	99US-0152363.	KW	hybridisation assay; genetic mapping; gene expression control; promoter;
PR	10-SEP-1999;	99US-0153070.	KW	termination sequence.
PR	13-SEP-1999;	99US-0153758.	XX	
PR	15-SEP-1999;	99US-0154011.	OS	
PR	16-SEP-1999;	99US-0154039.	XX	
PR	20-SEP-1999;	99US-0154779.	PN	EP1033405-A2.
PR	22-SEP-1999;	99US-0155139.	XX	
PR	23-SEP-1999;	99US-0155486.	PD	06-SEP-2000.
PR	24-SEP-1999;	99US-0155659.	XX	
PR	28-SEP-1999;	99US-0156458.	PF	25-FEB-2000: 2000EP-0301439.
PR	29-SEP-1999;	99US-0156596.	XX	
PR	04-OCT-1999;	99US-0157117.	PR	25-FEB-1999; 99US-0121825.
PR	05-OCT-1999;	99US-0157753.	PR	03-MAR-1999; 99US-0123180.
PR	06-OCT-1999;	99US-0157865.	PR	09-MAR-1999; 99US-0123548.
PR	07-OCT-1999;	99US-0158029.	PR	23-MAR-1999; 99US-0125788.
PR	08-OCT-1999;	99US-0158232.	PR	23-MAR-1999; 99US-0126264.
PR	12-OCT-1999;	99US-0158369.	PR	23-MAR-1999; 99US-0126785.
PR	13-OCT-1999;	99US-0158293.	PR	01-APR-1999; 99US-0127462.
PR	13-OCT-1999;	99US-0158394.	PR	06-APR-1999; 99US-0128234.
PR	13-OCT-1999;	99US-0158438.	PR	08-APR-1999; 99US-0128714.
PR	14-OCT-1999;	99US-0158329.	PR	16-APR-1999; 99US-0128845.
PR	14-OCT-1999;	99US-0159330.	PR	19-APR-1999; 99US-0130077.
PR	14-OCT-1999;	99US-0159331.	PR	21-APR-1999; 99US-0130449.
PR	14-OCT-1999;	99US-0159637.	PR	05-MAY-1999; 99US-0130510.
PR	14-OCT-1999;	99US-0159841.	PR	23-APR-1999; 99US-0130891.
PR	18-OCT-1999;	99US-0159841.	PR	28-APR-1999; 99US-0131449.
PR	21-OCT-1999;	99US-0160741.	PR	30-APR-1999; 99US-0132048.
PR	21-OCT-1999;	99US-0160757.	PR	10-MAY-1999; 99US-0132863.
PR	21-OCT-1999;	99US-0160768.	PR	11-MAY-1999; 99US-01334207.
PR	21-OCT-1999;	99US-0160770.	PR	04-MAY-1999; 99US-01334484.
PR	21-OCT-1999;	99US-0160814.	PR	05-MAY-1999; 99US-01332485.
PR	21-OCT-1999;	99US-0161466.	PR	06-MAY-1999; 99US-01332486.
PR	21-OCT-1999;	99US-0161559.	PR	06-MAY-1999; 99US-01332487.
PR	22-OCT-1999;	99US-0160880.	PR	07-MAY-1999; 99US-01332048.
PR	22-OCT-1999;	99US-0160981.	PR	30-APR-1999; 99US-01334207.
PR	22-OCT-1999;	99US-0161070.	PR	04-MAY-1999; 99US-01334218.
PR	25-OCT-1999;	99US-0161405.	PR	14-MAY-1999; 99US-01334219.
PR	25-OCT-1999;	99US-0161405.	PR	14-MAY-1999; 99US-01334221.
PR	25-OCT-1999;	99US-0161466.	PR	14-MAY-1999; 99US-01334370.
PR	26-OCT-1999;	99US-0161359.	PR	18-MAY-1999; 99US-01334768.
PR	26-OCT-1999;	99US-0161360.	PR	19-MAY-1999; 99US-01334256.
PR	26-OCT-1999;	99US-0161361.	PR	14-MAY-1999; 99US-01334218.
PR	28-OCT-1999;	99US-0161920.	PR	20-MAY-1999; 99US-01335124.
PR	28-OCT-1999;	99US-0161920.	PR	21-MAY-1999; 99US-01335353.
PR	28-OCT-1999;	99US-0161922.	PR	24-MAY-1999; 99US-01335629.
PR	28-OCT-1999;	99US-0161933.	PR	25-MAY-1999; 99US-0136021.
PR	29-OCT-1999;	99US-0162142.	PR	27-MAY-1999; 99US-0136392.
	Query Match	12.5%; Score 125; DB 21; Length 195;	PR	28-MAY-1999; 99US-0136722.
	Best Local Similarity	29.2%; Pred. No. 0_00026; Matches 38; Conservative 31; Mismatches 51; Indels 10; Gaps 3;	PR	01-JUN-1999; 99US-013722.
OY	S6	LITERYQRETYRVALRREFTLEYR---GKLUHEAAGVLAERKAQFAIREHQLMAWR 111	PR	03-JUN-1999; 99US-0137528.
OY	66	laqlrrdjakkyvrykeyheimlvekqgrkdearllasaaerrillkaeakva 125	PR	04-JUN-1999; 99US-0137502.
Db	112	ENRQLQELRIATIQLQLEAQAOQAERQAEVAQRAEQEEQAWOLKEQEVILKQBEEAKNITRE 171	PR	07-JUN-1999; 99US-0137724.
Db	126	eerkiaodefqrqlikeraklemkwungqkree----kikerekli-regqswieq 179	PR	08-JUN-1999; 99US-0138094.
OY	172	NLARIEEAL 181	PR	10-JUN-1999; 99US-0138540.
Db	180	eerkiteal 189	PR	14-JUN-1999; 99US-0138847.
			PR	16-JUN-1999; 99US-0138452.
			PR	16-JUN-1999; 99US-0138453.
			PR	17-JUN-1999; 99US-0138492.
			PR	18-JUN-1999; 99US-0138454.
			PR	18-JUN-1999; 99US-0138455.
			PR	18-JUN-1999; 99US-0139456.

PR	18-JUN-1999;	99US-0139457.	PR	20-AUG-1999;	99US-0149722.
PR	18-JUN-1999;	99US-0139458.	PR	20-AUG-1999;	99US-0149723.
PR	18-JUN-1999;	99US-0139459.	PR	20-AUG-1999;	99US-0149929.
PR	18-JUN-1999;	99US-0139460.	PR	23-AUG-1999;	99US-0149902.
PR	18-JUN-1999;	99US-0139461.	PR	23-AUG-1999;	99US-0149930.
PR	18-JUN-1999;	99US-0139462.	PR	25-AUG-1999;	99US-0150566.
PR	18-JUN-1999;	99US-0139463.	PR	26-AUG-1999;	99US-010884.
PR	18-JUN-1999;	99US-0139750.	PR	27-AUG-1999;	99US-0151065.
PR	18-JUN-1999;	99US-0139763.	PR	27-AUG-1999;	99US-0151066.
PR	21-JUN-1999;	99US-0139817.	PR	27-AUG-1999;	99US-0151080.
PR	23-JUN-1999;	99US-0139899.	PR	30-AUG-1999;	99US-0151303.
PR	23-JUN-1999;	99US-0140353.	PR	31-AUG-1999;	99US-0154348.
PR	23-JUN-1999;	99US-0140354.	PR	01-SEP-1999;	99US-0151930.
PR	24-JUN-1999;	99US-0140695.	PR	07-SEP-1999;	99US-0152363.
PR	24-JUN-1999;	99US-0140823.	PR	10-SEP-1999;	99US-0153070.
PR	29-JUN-1999;	99US-0140991.	PR	13-SEP-1999;	99US-0153758.
PR	30-JUN-1999;	99US-0141287.	PR	15-SEP-1999;	99US-0154018.
PR	01-JUL-1999;	99US-0141842.	PR	16-SEP-1999;	99US-0154039.
PR	01-JUL-1999;	99US-0142154.	PR	20-SEP-1999;	99US-0154779.
PR	02-JUL-1999;	99US-0142055.	PR	22-SEP-1999;	99US-0155139.
PR	02-JUL-1999;	99US-0142390.	PR	23-SEP-1999;	99US-0155886.
PR	09-JUL-1999;	99US-0142803.	PR	24-SEP-1999;	99US-0156495.
PR	09-JUL-1999;	99US-0142920.	PR	28-SEP-1999;	99US-0156498.
PR	12-JUL-1999;	99US-0142977.	PR	29-SEP-1999;	99US-0156596.
PR	13-JUL-1999;	99US-0143542.	PR	04-OCT-1999;	99US-0157117.
PR	14-JUL-1999;	99US-0143624.	PR	05-OCT-1999;	99US-0157733.
PR	15-JUL-1999;	99US-0144005.	PR	06-OCT-1999;	99US-015785.
PR	15-JUL-1999;	99US-0144085.	PR	07-OCT-1999;	99US-0158039.
PR	16-JUL-1999;	99US-0144086.	PR	08-OCT-1999;	99US-0158232.
PR	16-JUL-1999;	99US-0144335.	PR	12-OCT-1999;	99US-0158369.
PR	19-JUL-1999;	99US-0144325.	PR	13-OCT-1999;	99US-0159293.
PR	19-JUL-1999;	99US-0144331.	PR	13-OCT-1999;	99US-0159733.
PR	19-JUL-1999;	99US-0144332.	PR	14-OCT-1999;	99US-0159294.
PR	21-JUL-1999;	99US-0144333.	PR	15-OCT-1999;	99US-0159295.
PR	19-JUL-1999;	99US-0144334.	PR	14-OCT-1999;	99US-0159329.
PR	19-JUL-1999;	99US-0144335.	PR	14-OCT-1999;	99US-0159330.
PR	20-JUL-1999;	99US-0144352.	PR	14-OCT-1999;	99US-0159331.
PR	20-JUL-1999;	99US-0144632.	PR	14-OCT-1999;	99US-0159637.
PR	19-JUL-1999;	99US-0144884.	PR	14-OCT-1999;	99US-0159638.
PR	22-JUL-1999;	99US-0144814.	PR	15-OCT-1999;	99US-0159529.
PR	21-JUL-1999;	99US-0144806.	PR	14-OCT-1999;	99US-0159530.
PR	21-JUL-1999;	99US-0144808.	PR	14-OCT-1999;	99US-0159531.
PR	22-JUL-1999;	99US-0144808.	PR	14-OCT-1999;	99US-0159532.
PR	22-JUL-1999;	99US-0144808.	PR	14-OCT-1999;	99US-0159533.
PR	22-JUL-1999;	99US-0144807.	PR	14-OCT-1999;	99US-0159534.
PR	22-JUL-1999;	99US-0144809.	PR	14-OCT-1999;	99US-0159535.
PR	22-JUL-1999;	99US-0144812.	PR	14-OCT-1999;	99US-0159536.
PR	23-JUL-1999;	99US-0144814.	PR	14-OCT-1999;	99US-0159537.
PR	23-JUL-1999;	99US-0144818.	PR	14-OCT-1999;	99US-0159538.
PR	23-JUL-1999;	99US-0144824.	PR	14-OCT-1999;	99US-0159539.
PR	26-JUL-1999;	99US-0145226.	PR	14-OCT-1999;	99US-0159540.
PR	26-JUL-1999;	99US-0145276.	PR	14-OCT-1999;	99US-0159541.
PR	27-JUL-1999;	99US-0145813.	PR	14-OCT-1999;	99US-0159542.
PR	27-JUL-1999;	99US-0145818.	PR	14-OCT-1999;	99US-0159543.
PR	27-JUL-1999;	99US-0145919.	PR	14-OCT-1999;	99US-0159544.
PR	27-JUL-1999;	99US-0145951.	PR	14-OCT-1999;	99US-0159545.
PR	02-AUG-1999;	99US-0145918.	PR	14-OCT-1999;	99US-0159546.
PR	02-AUG-1999;	99US-0146386.	PR	14-OCT-1999;	99US-0159547.
PR	02-AUG-1999;	99US-0146388.	PR	14-OCT-1999;	99US-0159548.
PR	02-AUG-1999;	99US-0146389.	PR	14-OCT-1999;	99US-0159549.
PR	03-AUG-1999;	99US-0147038.	PR	14-OCT-1999;	99US-0159550.
PR	04-AUG-1999;	99US-0147204.	PR	14-OCT-1999;	99US-0159551.
PR	05-AUG-1999;	99US-0147192.	PR	14-OCT-1999;	99US-0159552.
PR	05-AUG-1999;	99US-0147303.	PR	14-OCT-1999;	99US-0159553.
PR	06-AUG-1999;	99US-0147416.	PR	14-OCT-1999;	99US-0159554.
PR	09-AUG-1999;	99US-0147493.	PR	14-OCT-1999;	99US-0159555.
PR	10-AUG-1999;	99US-0147935.	PR	14-OCT-1999;	99US-0159556.
PR	11-AUG-1999;	99US-0148171.	PR	14-OCT-1999;	99US-0159557.
PR	12-AUG-1999;	99US-0148319.	PR	14-OCT-1999;	99US-0159558.
PR	13-AUG-1999;	99US-0148565.	PR	14-OCT-1999;	99US-0159559.
PR	13-AUG-1999;	99US-0148684.	PR	14-OCT-1999;	99US-0159560.
PR	16-AUG-1999;	99US-0149368.	PR	14-OCT-1999;	99US-0159561.
PR	17-AUG-1999;	99US-0149426.	PR	14-OCT-1999;	99US-0159562.

Query

Match

12.5%

Score

125

DB

21

Length

266

Best Local

Similarity

29.2%

Conservative

31

Mismatches

51

Indels

10

Gaps

3

Matches

38

Conservative

31

Mismatches

51

Indels

10

Gaps

3

Matches

38

Conservative

31

Mismatches

51

Indels

10

Gaps

3

Query

56

LTERVQREYTRALRREFTEVR

--GKLH

EARAGLAERQA

TREHQELMANRE

111

Oy

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

Query

56

LTERVQREYTRALRREFTEVR

--GKLH

EARAGLAERQA

TREHQELMANRE

111

Oy

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

Query

56

LTERVQREYTRALRREFTEVR

--GKLH

EARAGLAERQA

TREHQELMANRE

111

Oy

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

|

:

Db 251 elerkiteal 260

RESULT 14

XX AAG48202 standard; Protein: 266 AA.

XX AAG48202;

XX DT 18-OCT-2000 (first entry)

DE Arabidopsis thaliana protein fragment SEQ ID NO: 60847.

KW Protein identification; signal transduction pathway; metabolic pathway; hybridization assay; genetic mapping; gene expression control; promoter; termination sequence.

KW OS Arabidopsis thaliana.

XX PN EP1033405-A2.

XX PD 06-SEP-2000.

XX PF 25-FEB-2000; 2000EP-0301439.

PR 05-MAR-1999; 99US-0121825.

PR 09-MAR-1999; 99US-0122180.

PR 23-MAR-1999; 99US-0123548.

PR 25-MAR-1999; 99US-0125788.

PR 29-MAR-1999; 99US-0126785.

PR 01-APR-1999; 99US-0124622.

PR 06-APR-1999; 99US-0128234.

PR 08-APR-1999; 99US-0128714.

PR 16-APR-1999; 99US-0128845.

PR 19-APR-1999; 99US-0130077.

PR 21-APR-1999; 99US-0130449.

PR 23-APR-1999; 99US-0130510.

PR 23-APR-1999; 99US-0130891.

PR 28-APR-1999; 99US-0131449.

PR 30-APR-1999; 99US-0132048.

PR 30-APR-1999; 99US-0132407.

PR 04-MAY-1999; 99US-0134844.

PR 05-MAY-1999; 99US-0134851.

PR 06-MAY-1999; 99US-0132486.

PR 07-MAY-1999; 99US-0132633.

PR 11-MAY-1999; 99US-0134256.

PR 14-MAY-1999; 99US-0134218.

PR 14-MAY-1999; 99US-014219.

PR 14-MAY-1999; 99US-0132486.

PR 18-MAY-1999; 99US-0132487.

PR 19-MAY-1999; 99US-0132633.

PR 20-MAY-1999; 99US-0134218.

PR 21-MAY-1999; 99US-0135353.

PR 24-MAY-1999; 99US-0135629.

PR 25-MAY-1999; 99US-0136021.

PR 27-MAY-1999; 99US-0136592.

PR 28-MAY-1999; 99US-0134941.

PR 01-JUN-1999; 99US-0137222.

PR 03-JUN-1999; 99US-0137528.

PR 04-JUN-1999; 99US-0137502.

PR 07-JUN-1999; 99US-0137774.

PR 08-JUN-1999; 99US-0138054.

PR 10-JUN-1999; 99US-0138550.

PR 10-JUN-1999; 99US-0138847.

PR 14-JUN-1999; 99US-0139119.

PR 16-JUN-1999; 99US-0139452.

PR 16-JUN-1999; 99US-0139453.

PR 17-JUN-1999; 99US-0139452.

PR 18-JUN-1999; 99US-0139454.

PR 18-JUN-1999; 99US-0139455.

PR 18-JUN-1999; 99US-0139163.

PR 21-JUN-1999; 99US-0139899.

PR 23-JUN-1999; 99US-0140553.

PR 24-JUN-1999; 99US-0140955.

PR 28-JUN-1999; 99US-0140923.

PR 30-JUN-1999; 99US-0141887.

PR 01-JUL-1999; 99US-0142154.

PR 02-JUL-1999; 99US-0142055.

PR 06-JUL-1999; 99US-0142390.

PR 08-JUL-1999; 99US-0142803.

PR 09-JUL-1999; 99US-0142920.

PR 12-JUL-1999; 99US-0142977.

PR 13-JUL-1999; 99US-0143542.

PR 14-JUL-1999; 99US-0143624.

PR 15-JUL-1999; 99US-0144005.

PR 16-JUL-1999; 99US-0144085.

PR 16-JUL-1999; 99US-0144086.

PR 17-JUL-1999; 99US-0144325.

PR 19-JUL-1999; 99US-0144331.

PR 19-JUL-1999; 99US-0144332.

PR 19-JUL-1999; 99US-0144333.

PR 19-JUL-1999; 99US-0144334.

PR 19-JUL-1999; 99US-0144335.

PR 20-JUL-1999; 99US-0144352.

PR 20-JUL-1999; 99US-0144632.

PR 20-JUL-1999; 99US-0144884.

PR 21-JUL-1999; 99US-0144814.

PR 21-JUL-1999; 99US-01445086.

PR 21-JUL-1999; 99US-0145088.

PR 22-JUL-1999; 99US-0145085.

PR 22-JUL-1999; 99US-0145087.

PR 22-JUL-1999; 99US-0145089.

PR 22-JUL-1999; 99US-0145192.

PR 23-JUL-1999; 99US-0145145.

PR 23-JUL-1999; 99US-0145218.

PR 23-JUL-1999; 99US-0145224.

PR 26-JUL-1999; 99US-0145276.

PR 27-JUL-1999; 99US-0145913.

PR 27-JUL-1999; 99US-0145918.

PR 27-JUL-1999; 99US-0145919.

PR 28-JUL-1999; 99US-0145951.

PR 02-AUG-1999; 99US-0146386.

PR 02-AUG-1999; 99US-0146388.

PR 03-AUG-1999; 99US-0146389.

PR 03-AUG-1999; 99US-0147038.

PR 04-AUG-1999; 99US-0147204.

PR 04-AUG-1999; 99US-0147302.

PR 05-AUG-1999; 99US-0147192.

PR 05-AUG-1999; 99US-0147260.

PR 06-AUG-1999; 99US-0147303.

PR 06-AUG-1999; 99US-0147416.

PR 09-AUG-1999; 99US-0147493.

PR 09-AUG-1999; 99US-0147935.

PR 10-AUG-1999; 99US-0148171.

PR 11-AUG-1999; 99US-0148319.

PR 12-AUG-1999; 99US-0148341.

PR 13-AUG-1999; 99US-0148565.

PR 13-AUG-1999; 99US-0146684.

PR 16-AUG-1999; 99US-0149368.

PR 17-AUG-1999; 99US-0149175.

PR	18-AUG-1999;	99US-0149425.
PR	20-AUG-1999;	99US-0149722.
PR	20-AUG-1999;	99US-0149723.
PR	23-AUG-1999;	99US-0149929.
PR	25-AUG-1999;	99US-0149930.
PR	26-AUG-1999;	99US-0150084.
PR	27-AUG-1999;	99US-0151065.
PR	27-AUG-1999;	99US-0151066.
PR	10-SEP-1999;	99US-0153070.
PR	13-SEP-1999;	99US-0153758.
PR	15-SEP-1999;	99US-0154018.
PR	16-SEP-1999;	99US-0154039.
PR	20-SEP-1999;	99US-0154779.
PR	22-SEP-1999;	99US-0155139.
PR	24-SEP-1999;	99US-0155486.
PR	28-SEP-1999;	99US-0155659.
PR	29-SEP-1999;	99US-0155596.
PR	04-OCT-1999;	99US-0151117.
PR	06-OCT-1999;	99US-0157865.
PR	07-OCT-1999;	99US-015029.
PR	08-OCT-1999;	99US-015232.
PR	12-OCT-1999;	99US-0158369.
PR	13-OCT-1999;	99US-015293.
PR	13-OCT-1999;	99US-0159394.
PR	13-OCT-1999;	99US-0159395.
PR	14-OCT-1999;	99US-0159329.
PR	14-OCT-1999;	99US-0159330.
PR	14-OCT-1999;	99US-0159331.
PR	14-OCT-1999;	99US-0159337.
PR	14-OCT-1999;	99US-0159338.
PR	18-OCT-1999;	99US-0159384.
PR	21-OCT-1999;	99US-0160741.
PR	21-OCT-1999;	99US-0160767.
PR	21-OCT-1999;	99US-0160768.
PR	21-OCT-1999;	99US-0160770.
PR	21-OCT-1999;	99US-0160814.
PR	21-OCT-1999;	99US-0160815.
PR	22-OCT-1999;	99US-0160980.
PR	22-OCT-1999;	99US-0160981.
PR	22-OCT-1999;	99US-0160982.
PR	22-OCT-1999;	99US-0161404.
PR	25-OCT-1999;	99US-0161405.
PR	25-OCT-1999;	99US-0161406.
PR	26-OCT-1999;	99US-0161360.
PR	26-OCT-1999;	99US-0161361.
PR	28-OCT-1999;	99US-0161920.
PR	28-OCT-1999;	99US-0161922.
PR	28-OCT-1999;	99US-0161993.
PR	28-OCT-1999;	99US-0162142.
Query	Match	12.5%; Score 125; DB 21; Length 266;
Best	Local Similarity	29.2%; Pred. No. 0.00039; Mismatches 51; Indels 10; Gaps 3;
Matches	38; Conservative	31; Mismatches 51; Indels 10; Gaps 3;

Db	251 elerkiteal 260
RESULT	15
ID	AAG48181 standard; protein; 280 AA.
XX	AAG48181;
AC	
XX	
DT	18-OCT-2000 (first entry)
XX	
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 60819.
XX	
KW	Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
XX	
OS	Arabidopsis thaliana.
XX	
PN	EP1033405-A2.
XX	
PD	06-SEP-2000.
XX	
PF	25-FEB-2000; 2000EP-0301439.
XX	
PR	25-FEB-1999; 99US-0121822.
PR	05-MAR-1999; 99US-0123180.
PR	09-MAR-1999; 99US-0123548.
PR	23-MAR-1999; 99US-0125788.
PR	25-MAR-1999; 99US-0126264.
PR	29-MAR-1999; 99US-0126785.
PR	01-APR-1999; 99US-0127462.
PR	06-APR-1999; 99US-0128234.
PR	08-APR-1999; 99US-0128714.
PR	16-APR-1999; 99US-0129845.
PR	19-APR-1999; 99US-0130077.
PR	21-APR-1999; 99US-0130449.
PR	23-APR-1999; 99US-0130891.
PR	28-APR-1999; 99US-01314.
PR	30-APR-1999; 99US-0132048.
PR	30-APR-1999; 99US-0132407.
PR	04-MAY-1999; 99US-0132484.
PR	05-MAY-1999; 99US-0132485.
PR	06-MAY-1999; 99US-0132487.
PR	06-MAY-1999; 99US-0132487.
PR	07-MAY-1999; 99US-0132863.
PR	11-MAY-1999; 99US-0134256.
PR	14-MAY-1999; 99US-0134284.
PR	14-MAY-1999; 99US-0134285.
PR	14-MAY-1999; 99US-0134221.
PR	14-MAY-1999; 99US-0134370.
PR	18-MAY-1999; 99US-0134768.
PR	19-MAY-1999; 99US-0134941.
PR	20-MAY-1999; 99US-0135124.
PR	21-MAY-1999; 99US-0135353.
PR	24-MAY-1999; 99US-0135291.
PR	25-MAY-1999; 99US-0136021.
PR	27-MAY-1999; 99US-0136782.
PR	01-JUN-1999; 99US-0137222.
PR	03-JUN-1999; 99US-0137528.
PR	04-JUN-1999; 99US-0137528.
PR	07-JUN-1999; 99US-0137724.
PR	08-JUN-1999; 99US-0138094.
PR	10-JUN-1999; 99US-0138540.
PR	10-JUN-1999; 99US-0138847.
PR	14-JUN-1999; 99US-0139119.
PR	16-JUN-1999; 99US-0139452.
PR	16-JUN-1999; 99US-0139453.
PR	17-JUN-1999; 99US-0139452.
PR	18-JUN-1999; 99US-0139454.

Query Match Similarity 12.5%; Score 125; DB 21; Length 280;  
 Best Local Similarity 29.2%; Pred. NO. 0.00041; Pred. NO. 0.00041;  
 Mismatches 5151; Indels 10; Gaps 1;

Tue Jun 26 16:47:31 2001

us-09-484-629a-2.rag

Page 19

Qy 172 NLRIBEAL 181  
| | : | |||  
Db 265 elerkiteal 274

Search completed: June 26, 2001, 16:36:27  
Job time: 358 sec